

Form PTO-1449

Docket Number 381092000721

Application Number 09/611,257

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

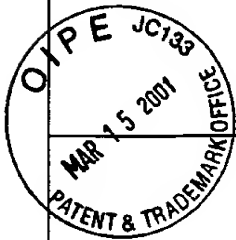
Applicant

Terrance P. SNUTCH, et al.

Filing Date July 6, 2000

Group Art Unit 1646

Mailing Date: March 12, 2001



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	01/1995	5,386,025	Jay	536	23.5	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
NS	2.	02/1995	WO 95/04144	WO			
NR	3.	12/1996	WO 96/39512	WO			
NS	4.	09/1998	WO 98/38301	WO			
NR	5.	06/1999	WO 99/28342	WO			
NR	6.	06/1999	WO 99/29847	WO			
NR	7.	10/1992	EP 0 507 170	EP			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
NR	8.	Cribbs, L.L. et al. (1998). <i>Circulation Research</i> 83:103-109.
	9.	Lee, J.-H. et al. (1999). <i>J Neurosci.</i> 19(6):1912-1921.
	10.	Perez-Reyes, E. et al. (1998). <i>Nature</i> 391:896-900.
	11.	Trofatter, J.A. et al. (1995). <i>Genome Res</i> 5(3):214-224.
	12.	Williams, M.E. et al. (1999). <i>J Neurochem</i> 72(2):791-799.

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FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 200130.512/ PP01598.002	APPLICATION NO. 09/611,527
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Lewis T. Williams et al.	
		FILING DATE June 30, 2000	GROUP ART UNIT 1641/646

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MS	AA	4,959,314	09/25/90	Mark et al.	435	69.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
AL	AB	WO 97/40151	10/30/97	WIPO	

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MSB	AC	Azzi A. et al., "The Protein Kinase C Family," <i>Eur. J. Biochem.</i> 208(3):547-557 (September 1992).
	AD	Baltz et al., "A LIM Motif Is Present in a Pollen-Specific Protein," <i>Plant Cell</i> 4(12):1465-1466 (December 1992).
	AE	Bandziulis et al., "RNA-Binding Proteins as Developmental Regulators," <i>Genes & Development</i> 3(4):431-437 (April 1989).
	AF	Bazan J.F., "A Novel Family of Growth Factor Receptors: A Common Binding Domain in the Growth Hormone, Prolactin, Erythropoietin and IL-6 Receptors, and the p75 IL-2 Receptor β -Chain," <i>Biochem. Biophys. Res. Commun.</i> 164(2):788-795 (October 31, 1989).
	AG	Bazan J.F., "Structural Design and Molecular Evolution of a Cytokine Receptor Superfamily," <i>Proc. Natl. Acad. Sci. USA</i> 87(18):6934-6938 (September 1990).
	AH	Bennett et al., "Association between Ankyrin and the Cytoplasmic Domain of Band 3 Isolated from the Human Erythrocyte Membrane," <i>J. Biol. Chem.</i> 255(13):6424-6432 (July 10, 1980).
	AI	Berg, J.M., "Proposed Structure for the Zinc-Binding Domains From Transcription Factor IIIA and Related Proteins," <i>Proc. Natl. Acad. Sci. USA</i> 85(1):99-102 (January 1988).
	AJ	Bork, P., "Hundreds of Ankyrin-Like Repeats in Functionally Diverse Proteins: Mobile Modules that Cross Phyla Horizontally?," <i>Proteins: Structure, Function, and Genetics</i> 17(4):363-374 (1993).
	AK	Breiden et al., "Similarity Between Cell-Cycle Genes of Budding Yeast and Fission Yeast and the <i>Notch</i> gene of <i>Drosophila</i> ," <i>Nature</i> 329(6140):651-654 (October 15-21, 1987).
	AL	Brenner, S., "The Molecular Evolution of Genes and Proteins: A Tale of Two Serines," <i>Nature</i> 334(6182):528-530 (August 11, 1988).
N	AM	Bürglin, <i>Guidebook to the Homeobox Genes</i> , Oxford University Press, Oxford, 1994, Chapter 3, "A Comprehensive Classification of Homeobox Genes," pp. 27-71.

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Lewis T. Williams et al.

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BB		APR 26 2001	
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	Burd et al., "Conserved Structures and Diversity of Functions of RNA-Binding Proteins," <i>Science</i> 265(5172):615-621 (July 29, 1994).
BD	Cailleau et al., "Breast Tumor Cell Lines From Pleural Effusions," <i>J. Natl. Cancer Inst.</i> 53(3):661-674 (September 1974).
BE	Chandrasekaran et al., "Glycosaminoglycans of Normal and Malignant Cultured Human Mammary Cells," <i>Cancer Research</i> 39(3):870-880 (March 1979).
BF	Charbonneau et al., "1002 Protein Phosphatases?," <i>Annu. Rev. Cell Biol.</i> 8:463-493 (1992).
BG	Clarke et al., "Engineered Disulfide Bonds as Probes of the Folding Pathway of Barnase: Increasing the Stability of Proteins Against the Rate of Denaturation," <i>Biochemistry</i> 32(16):4322-4329 (April 27, 1993).
BH	Confalonieri et al., "A 200-Amino Acid ATPase Module in Search of a Basic Function," <i>BioEssays</i> 17(7):639-650 (1995).
BI	Cosman et al., "A New Cytokine Receptor Superfamily," <i>Trends Biochem. Sci.</i> 15:265-270 (July 1990).
BJ	D'Andrea et al., "Erythropoietin Receptor and Interleukin-2 Receptor β Chain: A New Receptor Family," <i>Cell</i> 58(6):1023-1024 (September 22, 1989).
BK	D'Andrea et al., "A New Hematopoietic Growth Factor Receptor Superfamily: Structural Features and Implications for Signal Transduction," <i>Curr. Opin. Cell Biol.</i> 2(4):648-651 (August 1990).
BL	Davletov et al., "A Single C ₂ Domain from Synaptotagmin I Is Sufficient for High Affinity Ca ²⁺ /Phospholipid Binding," <i>J. Biol. Chem.</i> 268(35):26386-26390 (December 15, 1993).
BM	Dhanasekaran et al., "Signaling By Dual Specificity Kinases," <i>Oncogene</i> 17(11):1447-1455 (September 17, 1998).
BN	Dreyfuss G. et al., "Heterogeneous Nuclear Ribonucleoprotein Particles and the Pathway of mRNA Formation," <i>Trends Biochem. Sci.</i> 13:86-91 (March 1988).

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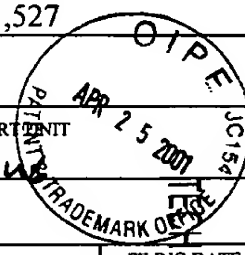
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DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
CB			

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NSB	CC	Drmanac et al., "Gene-Representing cDNA Clusters Defined by Hybridization of 57,419 Clones from Infant Brain Libraries with Short Oligonucleotide Probes," <i>Genomics</i> 37(1):29-40 (October 1, 1996).
	CD	Eklund et al., "Structural and Functional Relations Among Thioredoxins of Different Species," <i>Proteins: Structure, Function, and Genetics</i> 11(1):13-28 (1991).
	CE	Ellenberger, "Getting a grip on DNA Recognition: Structures of the Basic Region Leucine Zipper, and the Basic Region Helix-Loop-Helix DNA-Binding Domains," <i>Curr. Opin. Struct. Biol.</i> 4:12-21 (1994).
	CF	Erdmann et al., "PAS1, a Yeast Gene Required for Peroxisome Biogenesis, Encodes a Member of a Novel Family of Putative ATPases," <i>Cell</i> 64(3):499-510 (February 8, 1991).
	CG	Evans et al., "Zinc Fingers: Gilt by Association," <i>Cell</i> 52(1):1-3 (January 15, 1988).
	CH	Fischer et al., "Protein Tyrosine Phosphatases: A Diverse Family of Intracellular and Transmembrane Enzymes," <i>Science</i> 253(5018):401-406 (July 26, 1991).
	CI	Freyd et al., "Novel Cysteine-Rich Motif and Homeodomain in the Product of the <i>Caenorhabditis elegans</i> Cell Lineage Gene <i>lin-II</i> ," <i>Nature</i> 344(6269):876-879 (April 26, 1990).
	CJ	Fröhlich et al., "Yeast Cell Cycle Protein CDC48p Shows Full-Length Homology to the Mammalian Protein VCP and Is a Member of a Protein Family Involved in Secretion, Peroxisome Formation, and Gene Expression," <i>J. Cell Biol.</i> 114(3):443-453 (August 1991).
	CK	Fukuda et al., "Inositol-1,3,4,5-tetrakisphosphate Binding to C2B Domain of IP4BP/Synaptotagmin II," <i>J. Biol. Chem.</i> 269(46):29206-29211 (November 18, 1994).
	CL	Gastpar et al., "Methoxy-Substituted 3-Formyl-2-phenylindoles Inhibit Tubulin Polymerization," <i>J Med Chem</i> 41(25):4965-4972 (December 3, 1998).
	CM	Gehring et al., "Homeotic Genes and the Homeobox," <i>Ann. Rev. Genet.</i> 20:147-173 (1986).

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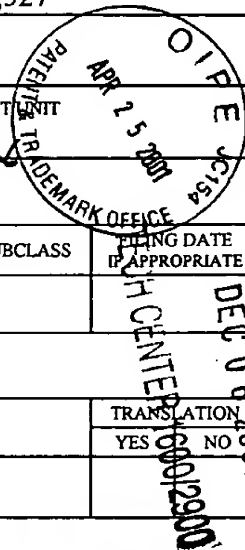
Lewis T. Williams et al.

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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DB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

NSB	DC	Gehring, <i>Guidebook to the Homeobox Genes</i> , Oxford University Press, Oxford, 1994, Chapter 1, "A History of the Homeobox," pp. 3-10.
	DD	Gehring, W.J., "The Homeobox In Perspective," <i>Trends Biochem. Sci.</i> 17:277-280 (August 1992).
	DE	Gilman, "G Proteins: Transducers of Receptor-Generated Signals," <i>Ann. Rev. Biochem.</i> 56:615-649 (1987).
	DF	Gleason et al., "Thioredoxin and Related Proteins in Procaryotes," <i>FEMS Microbiol. Rev.</i> 54(4):271-298 (December 1988).
	DG	Gō et al., "Relationship Between Mutability, Polarity and Exteriority of Amino Acid Residues in Protein Evolution," <i>Int. J. Peptide Protein Res.</i> 15(2):211-224 (February 1980).
	DH	Haezebrouck et al., "Stability Effects Associated With the Introduction of A Partial and a Complete Ca ²⁺ -Binding Site Into Human Lysozyme," <i>Protein Eng.</i> 6(6):643-649 (August 1993).
	DI	Hanks et al., "The Protein Kinase Family: Conserved Features and Deduced Phylogeny of the Catalytic Domains," <i>Science</i> 241(4861):42-52 (July 1, 1988).
	DJ	Hanks, "Eukaryotic Protein Kinases," <i>Curr. Opin. Struct. Biol.</i> 1:369-383 (1991).
	DK	Hanks et al., "The Eukaryotic Protein Kinase Superfamily: Kinase (Catalytic) Domain Structure and Classification," <i>FASEB J.</i> 9(8):576-596 (May 1995)
	DL	Hanks et al., "Protein Kinase Catalytic Domain Sequence Database: Identification of Conserved Features of Primary Structure and Classification of Family Members," <i>Meth. Enzymol.</i> 200:38-62 (1991)
	DM	Harosh et al., "The RAD3 Gene is a Member of the DEAH Family RNA Helicase-Like Protein," <i>Nucleic Acids Res.</i> 19(22):6331 (November 25, 1991)

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EA							
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	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO	
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M	EC	Haynes et al., "The Bromodomain: A Conserved Sequence Found in Human, <i>Drosophila</i> and Yeast Proteins," <i>Nucleic Acids Res.</i> 20(10):2603 (May 25, 1992)					
/	ED	Hill, "Signalling to the Nucleus By Members of the Transforming Growth Factor- β (TFG- β) Superfamily," <i>Cell Signal</i> 8(8):533-544 (1996)					
/	EE	Hodgman, "A New Superfamily of Replicative Proteins," <i>Nature</i> 333(6168):22-23 (May 5, 1988)					
/	EF	Hodgman, "A New Superfamily of Replicative Proteins," <i>Nature</i> 333(6173):578 (June 9, 1988)					
/	EG	Holmgren, "Thioredoxin," <i>Annu. Rev. Biochem.</i> 54:237-271 (1985)					
/	EH	Holmgren, "Thioredoxin and Glutaredoxin Systems," <i>J. Biol. Chem.</i> 264(24):13963-13966 (August 25, 1989)					
/	EI	Hunter, "Protein Kinase Classification," <i>Meth. Enzymol.</i> 200:3-37 (1991)					
/	EJ	Hunter, "Protein-Tyrosine Phosphatases: The Other Side of the Coin," <i>Cell</i> 58(6):1013-1016 (September 22, 1989)					
/	EK	Kelner et al., "Nonresponsiveness of the Metastitic Human Lung Carcinoma MV522 Xenograft to Conventional Anticancer Agents," <i>Anticancer Res.</i> 15(3):867-872 (May-June 1995)					
/	EL	Kerr et al., "Signal Transduction: The Nuclear Target," <i>Current Op. Cell Biol.</i> 4(3):496-501 (June 1992)					
/	EM	Kiefer et al., "Regulation of Transcription and Translation," <i>Biochem. Soc. Trans.</i> 25(2):491-498 (May 1997)					
/	EN	Klug et al., "'Zinc Fingers': A Novel Protein Motif for Nucleic Acid Recongition," <i>TIBS</i> 12(12):464-469 (December 1987)					
✓	EO	Knighton et al., "Crystal Structure of the Catalytic Subunit of Cyclic Adenosine Monophosphate-Dependent Protein Kinase," <i>Science</i> 253(5018):407-414 (July 26, 1991)					
EXAMINER <i>N. Smith S. Ka</i>				DATE CONSIDERED <i>8/12/00</i>			
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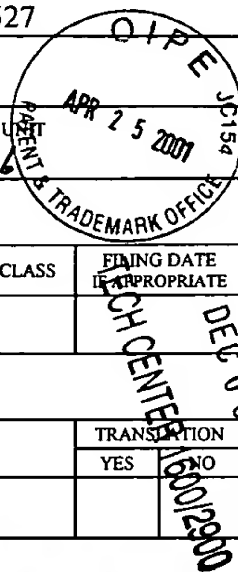
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FOREIGN PATENT DOCUMENTS

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FB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

UW	FC	Koonin et al., "Vaccinia Virus Encodes Four Putative DNA and/or RNA helicases Distantly Related to Each Other," <i>J. Gen. Virol.</i> 73(4):989-993 (April 1992)
	FD	Kuang et al., "Differential Screening and Suppression Subtractive Hybridization Identified Genes Differentially Expressed in an Estrogen Receptor-Positive Breast Carcinoma Cell Line," <i>Nucleic Acids Res.</i> 26(4):1116-1123 (February 15, 1998)
	FE	Kunau et al., "Two Complementary Approaches to Study Peroxisome Biogenesis in <i>Saccharomyces cerevisiae</i> : Forward and Reversed Genetics," <i>Biochimie</i> 75(1/2):209-224 (1993)
	FF	Kuriyan et al., "Structures of SH2 and SH3 Domains," <i>Curr. Opin. Struct. Biol.</i> 3:828-837 (1993)
	FG	Lambert et al., "From Anemia to Cerebellar Dysfunction: A Review of the Ankyrin Gene Family," <i>Eur. J. Biochem.</i> 211(1/2):1-6 (January 1993)
	FH	Liao et al., "Structure of Wheat Serine Carboxypeptidase II at 3.5-Å Resolution," <i>J. Biol. Chem.</i> 265(12):6528-6531 (April 25, 1990)
	FI	Linder et al., "Birth of the D-E-A-D Box," <i>Nature</i> 37(6203):121-122 (January 12, 1989)
	FJ	Marengere et al., "Structure and Function of SH2 Domains," <i>J. Cell Sci. Supplement</i> 18:97-104 (December 1994)
	FK	Masui et al., "Stabilization and Rational Design of Serine Protease AprM Under Highly Alkaline and High-Temperature Conditions," <i>Appl. Env. Microbiol.</i> 60(10):3579-3584 (October 1994)
	FL	Matsuno et al., "Suppressor of Hairless-Independent Events in Notch Signaling Imply Novel Pathway Elements," <i>Development</i> 124(21):4265-4273 (1997)
✓	FM	Mayer et al., "A Novel Viral Oncogene With Structural Similarity to Phospholipase C," <i>Nature</i> 332(6161):272-275 (March 17, 1988)

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

NGM	GC	Mayer et al., "Signalling Through SH2 and SH3 Domains," <i>Trends Cell Biol.</i> 3:8-13 (January 1993)
	GD	Meldrum et al., "The PtdIns-PLC Superfamily and Signal Transduction," <i>Biochim. Biophys. Acta</i> 1092:49-71 (1991)
	GE	Michelsen et al., "The LIM Motif Defines a Specific Zinc-Binding Protein Domain," <i>Proc. Natl. Acad. Sci. USA</i> 90(10):4404-4408 (May 15, 1993)
	GF	Miller et al., "Repetitive Zinc-Binding Domains in the Protein Transcription Factor IIIA From <i>Xenopus</i> oocytes," <i>EMBO J.</i> 4(6):1609-1614 (June 1985)
	GG	Milner et al., "The G9a Gene in the Human Major Histocompatibility Complex Encodes a Novel Protein Containing Ankyrin-Like Repeats," <i>Biochem. J.</i> 290(2):811-818 (March 1, 1993).
	GH	Mordret, "MAP Kinase Kinase: A Node Connecting Multiple Pathways," <i>Biol. Cell</i> 79(3):193-207 (1993).
	GI	Morikawa et al., "Influence of Organ Environment on the Growth, Selection, and Metastasis of Human Colon Carcinoma Cells in Nude Mice," <i>Cancer Research</i> 48(23):6863-6871 (December 1, 1988)
	GJ	Morton et al., "SH3 domains. Molecular 'Velcro'," <i>Current Biology</i> 4(7):615-617 (July 1, 1994)
	GK	Musacchio et al., "SH3-an abundant protein domain in search of a function," <i>FEBS Lett.</i> 307(1):55-61 (July 27, 1992)
	GL	Nishida et al., "The MAP Kinase Cascade is Essential for Diverse Signal Transduction Pathways," <i>TIBS.</i> 18:128-131 (April 1993)
	GM	Nusse, "The <i>int</i> Genes in Mammary Tumorigenesis in a Normal Development," <i>TIG</i> 4(10):291-295 (October 1988)
	GN	Olsen et al., "Improvement of Bacterial β -Glucanase Thermostability by Glycosylation," <i>J. Gen. Microbiol.</i> 137(3):579-585 (March 1991)

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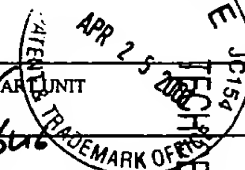
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MC	HC	Pawson, "Protein Modules and Signalling Networks," <i>Nature</i> 373(6515):573-580 (February 16, 1995)
	HD	Payre et al., "Finger Proteins and DNA-Specific Recognition: Distinct Patterns of Conserved Amino Acids Suggest Different Evolutionary Modes," <i>FEBS Lett.</i> 234(2):245-250 (July 1988)
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	HF	Ponting, "Evidence for PDZ Domains in Bacteria, Yeast, and Plants," <i>Protein Sci.</i> 6(2):464-468 (February 1997)
	HG	Querol et al., "Analysis of Protein Conformational Characteristics Related to Thermostability," <i>Prot. Eng.</i> 9(3):265-271 (March 1996)
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	HI	Rhee et al., "Multiple Forms of Phospholipase C Isozymes and Their Activation Mechanisms," <i>Adv. Second Messenger Phosphoprotein Res.</i> 26:35-61 (1992)
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	HL	Ruderman, "MAP Kinase and the Activation of Quiescent Cells," <i>Curr. Opin. Cell. Biol.</i> 5(1):207-213 (February 1993)

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Lewis T. Williams et al.

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
			YES NO
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IC	Russell et al., "Conservation Analysis and Structure Prediction of the SH2 Family of Phosphotyrosine Binding Domains," <i>FEBS Lett.</i> 304(1):15-20 (June 1992)
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IK	Sternweis et al., "Regulation of Phospholipase C By G Proteins," <i>Trends Biochem. Sci.</i> 17:502-506 (December 1992)
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IN	Toma et al., "Grafting of a Calcium-Binding Loop of Thermolysin to <i>Bacillus subtilis</i> Neutral Protease," <i>Biochemistry</i> 30(1):97-106 (January 8, 1991)

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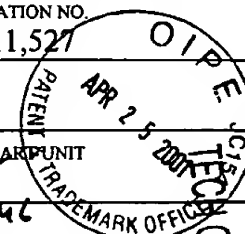
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JD	Trowbridge, "A Prototype for Transmembrane Protein Tyrosine Phosphatases," <i>J. Biol. Chem.</i> 266(35):23517-23520 (December 15, 1991)
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JF	Varki et al., "Cloned Low Metastatic Variants From Human Lung Carcinoma Metastases," <i>Anticancer Res.</i> 10(3):637-644 (May-June 1990)
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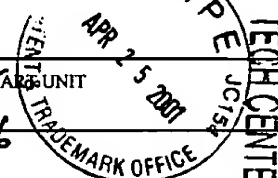
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